Municipal water supplies are regulated under the Safe Drinking Water Act, which mandates routine testing and treatment. Virginia Cooperative Extension offers water testing and education for private water supply users across the state.

**What's in your water?**

### Wells

- **Well age:** 2-72 years
- **Well depth:** 30-700 feet
- **Serving:** 472 people
- **168 samples analyzed**

#### Common contaminants

- **Total coliform bacteria**
- **Copper**
- **Lead**
- **E. Coli**

#### Sources

- **Drilled Wells**
- **Spring Wells**
- **Drained Wells**
- **Unknown**

#### Devices

- **No Treatment**
- **Sediment Filter**
- **Iron Removal**
- **Carbon**
- **Siliconer**

### Where do contaminants come from?

- **Groundwater**
- **Surface Water**
- **Landuse and nearby activities**
- **Plumbing materials and water treatment**
- **Hydrogeology**


- **168 samples analyzed**
- **Serving 472 people**
- **Well age:** 2-72 years

#### Cities

- **Drilled Wells**
- **Spring Wells**
- **Tap Wells**
- **Well Cap**
- **Source**

#### Survey

- **13%** of participants did not know what type of system they had.
- **The most common source reported was drilled wells.**

#### Analysis

- **Samples are analyzed for total coliform and total bacteria, fluoride, sodium, sulfur, iron, manganese, total dissolved solids, pH, and sulfate. The cost for one sample kit in 2017 was $55. Confidential results are provided as a hard copy by mail or email.**

#### Results

- **42%** of participants reported having a treatment device that contained iron removal. **The most common treatment device was a sediment filter.**

### Household water quality in Carroll County: Common Contaminants

- **Low pH (<6.5)**
- **Copper**
- **Lead**
- **E. Coli**
- **Hydrogeology**

Is your water safe? Visit us online!

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**Household Water Quality Program**

**Carroll County 2011-2017**

**Carroll County Extension Office**

**Cooperative Extension offers water testing and education for private water supply users across the state.**

1. **Kickoff Meeting**

   Participation in voluntary and open to anyone who would like to learn about, get a sample kit, and receive directions about how to collect the samples from their household tap and where and when to drop off their samples.

2. **Sampling**

   Following directions carefully, participants collect 10 gallons of water from their household tap in a clean 5-gallon bucket. They should label the bucket with their name, address, phone number, and date. They should also record the date and time of sampling, duration of flow, and type of system they have.

3. **Analysis**

   Samples are analyzed for total coliform and total bacteria, fluoride, sodium, sulfur, iron, manganese, total dissolved solids, pH, and sulfate. The cost for one sample kit in 2017 was $55. Confidential results are provided as a hard copy by mail or email.

4. **Results**

   Results are returned to participants and explained at a local interpretation meeting. Water testing information is provided about adverse water quality problems, how to clean, and maintenance of private water supplies.

**Virginia Household Water Quality Program**

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